

Product datasheet for **SC104212**

Thymidine Phosphorylase (TYMP) (AK057214) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Thymidine Phosphorylase (TYMP) (AK057214) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Thymidine Phosphorylase |
| Synonyms: | ECGF; ECGF1; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PDECGF; TP |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for AK057214, the custom clone sequence may differ by one or more nucleotides |

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ATGGCAGCCTTGATGACCCCGGGAACCGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGAAGGGAGCC
AGGGACTTCCCGACCTTCGCCAGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGG
CCGCCTGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAG
ATCGGTGCGTGGGGAGGGTTGGGCGTTCCTGACCCGACTGGGAGGTGAGCCGAGAGACTTTGGGTCCC
TGGGGTGCGACGGTGCCCACTACCAGCACCGGCCCCAGGGTGCCCCACCGCTGTGGGCTGCCACCCTC
ACGCGTACCCACATACCAGGGGCCATGCTGATGGCCATCCGACTTCGGGGCATGGATCTGGAGGAGAC
CTCGGTGCTGACCCAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGAGGCCTGGCGCCAGCAG
CTTGTGGACAAGCATTCCACAGGGGGTGTGGGTGA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for AK057214 unedited</p> <pre>TATTTTGGTATACGACTTACTATAGGGCGGCCGGAATTCGCACCAGGCGAACCCCTGAAC CCTACGGTCCCAGCCCGCGGGCGAGGCCGGTACTGGGCTGGGATCCGGAGCAAGCGGG CGAGGGCAGCGCCCTAAGCAGGTACGGGCGGGGCTCAAGTCGCGAGGCGGGGAAGCGGGA GGCAGACACGGACGAGGGCGACACAGACACGGGACCGAGGGGCGGACACCGGAGAGACAC GGGAAAGGGGTCGGGACAGGACGTCGTGCTCAGACACCGACCGCGGGAGGCCAGACC CCGGACGTGTCAGGCATCCCCGACGGCCCGAGCGATGGCAGCCTTGATGACCCCGGAA CCGGGGCCCCACCCGCGCTGGTGACTTCTCCGGGAAGGGAGCCAGGGACTTCCCGACC CTTCGCCAGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGGCCGC TGAGCGAAGCGGACATCAGGGGCTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCG CACAGATCGGTGCGTGGGGAGGGTTGGGCGTTCCTGACCCGACTGGGAGGTGAGCCGA GAGACTTTGGGTCCTGGGGTGCACNGTGCCCCACTACCAGCACCCGGTCCAAGGTGC CCCCACCCTGTGGGCTGTACCCTCACGCGTACCCACACATACCAGGGGCCATGCTGAT GGCCATCCCAACTCCGGCATTGGATCTGGAAGAGACCTCGGGTGTGACCCAGGCCCTG GTTAATCCGGACAACAACCTGAAGTGCCACAGGCCTTGTGCGCAACAACCTTTGTGGAC CAGCATTCCCAAGGGGGTGTGGGTGAAAAGGCAAACTGTTCTTCNACCTGCCCTGAG GGCATTGGCTTCGAAGGTAAAAAACACCTTCTTTCCAAACGGGGACTTATTCGCCAA TGTGAAAACCAATGCATTTCAAAGCGCGTN</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for AK057214 unedited</p> <pre>GAGTTTAAATCCTTTTTTTTTTTTGTAGGAGAATCAATTTTCACTATATTACCCAGGCTGA TCTCCAACCTGGGCTCCTCTGCCTCCAGAGTGCTGGGACAGGGTCTCACTCTGTTGCCCA AGCTGGAGTGCAGTGGCATCGTCCGGCTCACTGCAGCCTAAACCTCCCAGGCTCAAGTG ATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGAACCACGTGCGTGCACCACACACGAGC GAACTATTTTGTAGAGATGGGGTTTTGCCTTGTATCCAGGCTGGTTTTGAACTCCTGGG TTCAAGGGATCTGCCCTTTCGGCTCCCAAGTCTAGGACTACAGGTGTGAGCCACCG TGCCCCCGCAGCCATCTGTGATTTTGACCAACTCCCATTTATGATCCTAATCAAAGTT CCACTGATGATTTCCGGCCCAAGCCAGTGACTCATGAGTAACCTTGACCAGTGTCTCAT TAGTGACCCTAATGATCCACCAGTGATCTTTAGTGATTCTGGCCAGGGTCTCCATCATC AACCTGGATCAATGACTGATCCGTGGCGCCCGTACCTGCTCTGGGCTCTGGATGACATT GAATCCAGGAATAGACTCCAGCTTATCCAAAGTGCCTCCTGTGTCGCCACAGCCAGTCC GCTGATCATTGGCACCTGGTGGTCAAGGATGCTGAGTACCTGCACAGTACCCCTCCCC ACCTCTGTGGCTCCCTTACCTTCCCGGCTAGGAGTGCANCTGGGATTTGGAAGTATTT TAACCANCTTTAGGGGTGCCCAACTGGTGGAGGATGAAAAGAAGTTTCCCCGATTGAAA TCGTCATTCAGG</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | AK057214 |
| Insert Size: | 2250 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [AK057214.1](#), [BAG51886.1](#)

RefSeq Size: 2049 bp

RefSeq ORF: 2049 bp

Locus ID: 1890

Cytogenetics: 22q13.33

Protein Families: Druggable Genome

Protein Pathways: Bladder cancer, Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

Gene Summary: This gene encodes an angiogenic factor which promotes angiogenesis in vivo and stimulates the in vitro growth of a variety of endothelial cells. It has a highly restricted target cell specificity acting only on endothelial cells. Mutations in this gene have been associated with mitochondrial neurogastrointestinal encephalomyopathy. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Apr 2012]